

BP1500 Tech Sheet

Balboa Water Group

Part Number: **55697-04** 4kW 800 Incoloy Element **55967-03** 3kW 800 Incoloy Element
 55700-04 With 4kW Titanium Element **55968-03** 3kW 800 Titanium Element

Compatible Plumbing Kits (Coupling nuts and seals included)

55911 2" Tailpieces (2-Speed Pump 1)
55914 1.5" Tailpieces (2-Speed Pump 1)
55912 1" Tailpiece Inserts (Circ)
55913 One Direct Circ Pump Coupling and one 1" Tailpiece Insert

System Model: BP1500
Software ID: M100_200
Software Version: 3.0
Hex File: BP1500_3.hex
Configuration Signature: A111A271

Eng. Project: 3333

Base PCBs / PCBA's:

Power Board: 22117_B / 55674-01
Logic Board: 22121_C / 55675-05

Control Panels:

TP 600 55673-03
Software Version 1.0 and later

Auxiliary Panels

AX10A2 55919



User Interface and Programming Guide:

http://service.balboa-instruments.com/zz40940_download.zip



Manufactured under one or more of these patents. U.S. Patents: 5332944, 5361215, 5550753, 5559720, 5,883,459, 6253227, 6282370, 6590188, 6976052, 6965815, 7030343, 7,417,834 b2, Canadian Patent: 2342614, Australian patent: 2373248 other patents both foreign and domestic applied for and pending. All material copyright of Balboa Water Group.

System Revision History

Part #	EPN	Date	Originator	Changes Made
55697 and 55700	2277	05-19-09	Balboa	Initial Generic Configuration 800 Incoloy and Titanium models Initial release
		06-09-09	Balboa	Minor corrections and clarification. Add J23 / J32 connection for Misc.
		08-01-09	BWG	Minor corrections, hardware revs and firmware update
		08-14-09	BWG	Tech Sheet update
	3297	12-01-09	BWG	Software update and configuration update (remove GFCI Test Feature)
	3333	02-09-10	BWG	Wiring Diagram Update to Rev B Power Board and Rev C Logic Board
	3333	02-17-10	BWG	Software update to Version 3.0
	3333	03-12-10	BWG	P1 Low Timeout Update. Add Setup Change Reference



Plumbing Fittings



2" Tailpiece kit PN 55911.

Standard 2" sockets to glue up to 2" PVC pipe.



Not Immediately Available.

1.5" Tailpiece kit PN 55914.

1.5" sockets to glue up to 1.5" PVC pipe with the I.D.

Be sure to orient the fittings so that the insert is at the 12:00 position to prevent trapped air.



1" Circ Pump Insert kit PN 55912.

1" barb fittings for use with 1" tubing.

Be sure to orient the fittings so that the insert is at the 12:00 position to prevent trapped air.



Not Immediately Available.

1" Circ Pump Insert kit PN 55913.

One fitting for direct coupling to the threaded suction of an appropriately-sized circ pump. A 1" barb fitting for use with 1" tubing is used on the other end of the heater.

Be sure to orient the fittings so that the insert is at the 12:00 position to prevent trapped air.



Setup 1 – As Manufactured

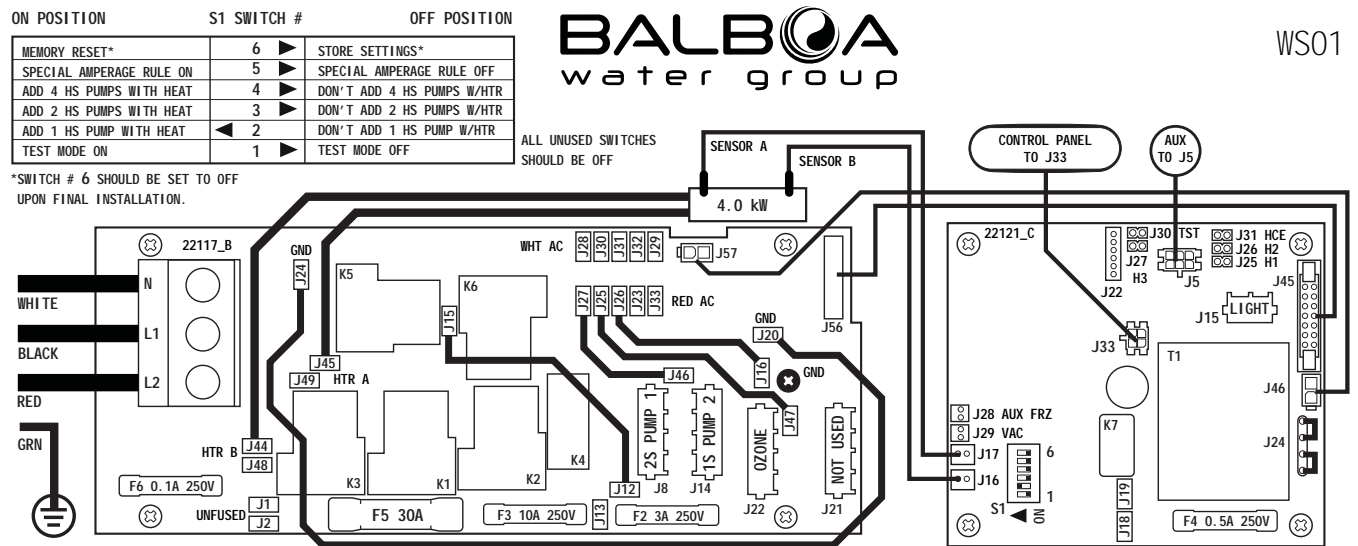
Power Requirements:

240VAC, 60Hz, 40A, Class A GFCI-protected service (Circuit Breaker rating = 50A max.)
 4 wires (Hot-Line 1, Hot-Line 2, Neutral, Ground)

System Outputs:

Pump 1	240VAC	2-Speed	12A max	120-minute timer for Low Speed, 15 Minutes for High Speed
This is the heater pump and must be the same voltage as the Ozone Must deliver a minimum of 20 GPM through heater				
Pump 2	240VAC	1-Speed	12A max	15-minute timer
Ozone	240VAC		.5A max	Uses the same relay as Pump 1 Low Must be the same voltage as heater pump
Spa Light	12VAC	On/Off	.25A max	4-Hour timer.
Light output is rated for LED lighting only - NOT for use with incandescent lights.				
Heater	4kW @ 240VAC			
Misc.	J23 & J32	120VAC	4A max	Hot output (Stereo). Fused equipment or in-line fuse required.

Wiring Diagram and Settings



Refer to Page 3 to choose a suitable Plumbing Kit.



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Setup 2

Power Requirements:

240VAC, 60Hz, 40A, Class A GFCI-protected service (Circuit Breaker rating = 50A max.)
 4 wires (Hot-Line 1, Hot-Line 2, Neutral, Ground)

System Outputs:

Pump 1	240VAC	1-Speed	12A max	15-minute timer
Pump 2	240VAC	1-Speed	12A max	15-minute timer
Circ Pump	240VAC	1-Speed	5A max	Programmable Filtration Cycles + Polling
This is the heater pump and must be the same voltage as the Ozone Must deliver a minimum of 20 GPM through heater				
Ozone	240VAC		.5A max	Uses the same relay as the Circ Pump
Must be the same voltage as heater pump				
Spa Light	12VAC	On/Off	.25A max	4-Hour timer.
Light output is rated for LED lighting only - NOT for use with incandescent lights.				
Heater	4kW @ 240VAC			
Misc.	J23 & J32	120VAC	4A max	Hot output (Stereo). Fused equipment or in-line fuse required.

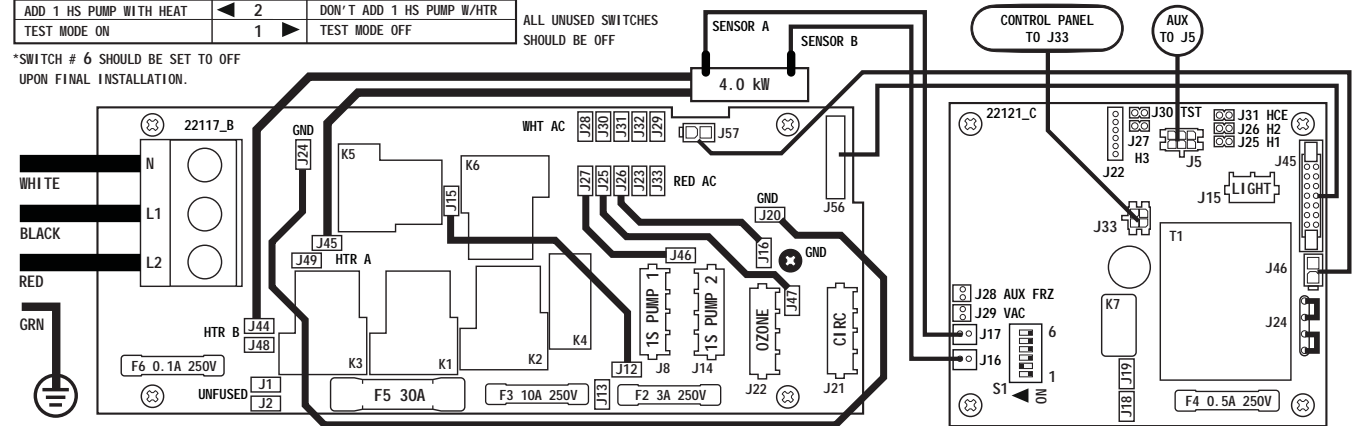
Wiring Diagram and Settings

ON POSITION	S1 SWITCH #	OFF POSITION
MEMORY RESET*	6	STORE SETTINGS*
SPECIAL AMPERAGE RULE ON	5	SPECIAL AMPERAGE RULE OFF
ADD 4 HS PUMPS WITH HEAT	4	DON'T ADD 4 HS PUMPS W/HTR
ADD 2 HS PUMPS WITH HEAT	3	DON'T ADD 2 HS PUMPS W/HTR
ADD 1 HS PUMP WITH HEAT	2	DON'T ADD 1 HS PUMP W/HTR
TEST MODE ON	1	TEST MODE OFF



WS02

*SWITCH # 6 SHOULD BE SET TO OFF UPON FINAL INSTALLATION.



Software Configuration Changes based on Default Feature

Feature	Orig. Setup 1	Changes to
J8	2-Speed Pump 1	<i>1-Speed Pump 1</i>
J21	Not Used (non-circ)	<i>Circ Pump Enabled</i>

Refer to Page 3 to choose a suitable Plumbing Kit.

Blue indicates changes from the original Setup 1 default



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Setup 3

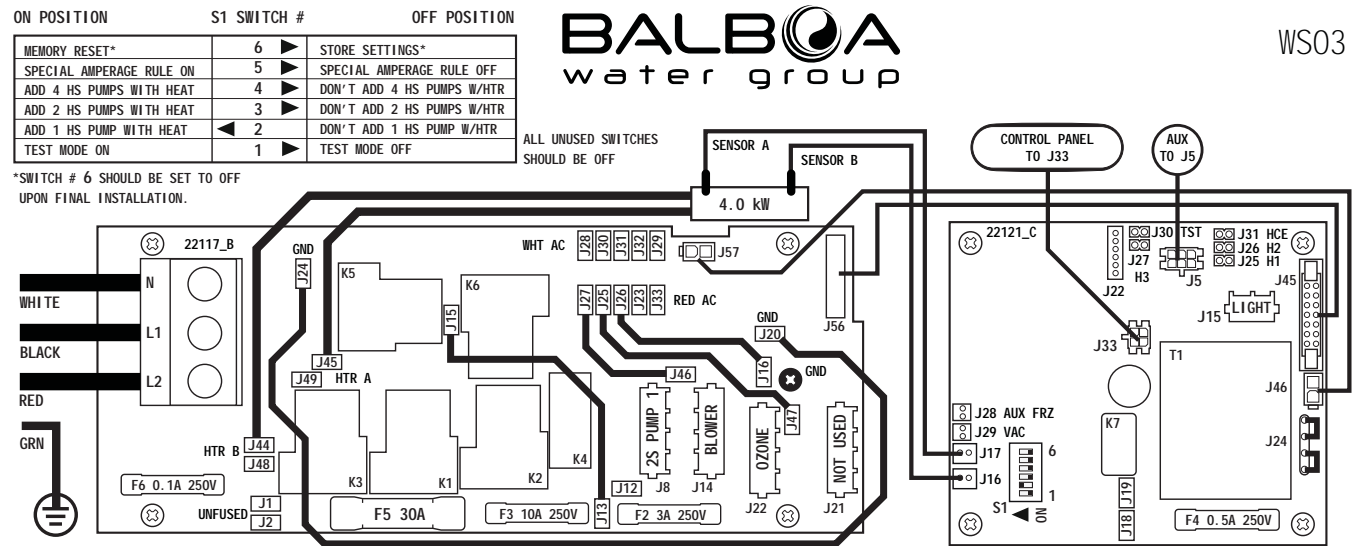
Power Requirements:

240VAC, 60Hz, 40A, Class A GFCI-protected service (Circuit Breaker rating = 50A max.)
 4 wires (Hot-Line 1, Hot-Line 2, Neutral, Ground)

System Outputs:

Pump 1	240VAC	2-Speed	12A max	120-minute timer for Low Speed, 15 Minutes for High Speed
	This is the heater pump and must be the same voltage as the Ozone			
	Must deliver a minimum of 20 GPM through heater			
Blower	240VAC	1-Speed	8A max	15-minute timer
Ozone	240VAC		.5A max	Uses the same relay as Pump 1 Low
	Must be the same voltage as heater pump			
Spa Light	12VAC	On/Off	.25A max	4-Hour timer.
	Light output is rated for LED lighting only - NOT for use with incandescent lights.			
Heater	4kW @ 240VAC			
Misc.	J23 & J32	120VAC	4A max	Hot output (Stereo). Fused equipment or in-line fuse required.

Wiring Diagram and Settings



Software Configuration Changes based on Default Feature

Feature	Orig. Setup 1	Changes to
J14, TP600 Button 2, LED 2, AX10A2	Pump 2	<i>Blower</i>

Refer to Page 3 to choose a suitable Plumbing Kit.

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Setup 4

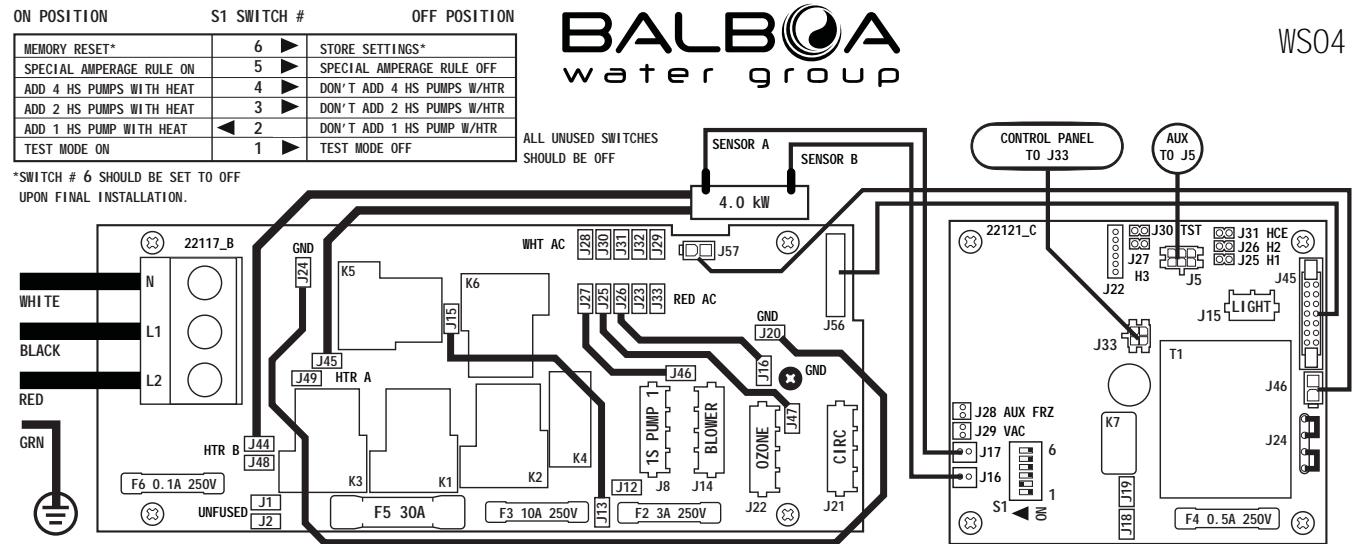
Power Requirements:

240VAC, 60Hz, 40A, Class A GFCI-protected service (Circuit Breaker rating = 50A max.)
 4 wires (Hot-Line 1, Hot-Line 2, Neutral, Ground)

System Outputs:

Pump 1	240VAC	1-Speed	12A max	15-minute timer
Blower	240VAC	1-Speed	8A max	15-minute timer
Circ Pump	240VAC	1-Speed	5A max	Programmable Filtration Cycles + Polling
This is the heater pump and must be the same voltage as the Ozone Must deliver a minimum of 20 GPM through heater				
Ozone	240VAC		.5A max	Uses the same relay as the Circ Pump
Must be the same voltage as heater pump				
Spa Light	12VAC	On/Off	.25A max	4-Hour timer.
Light output is rated for LED lighting only - NOT for use with incandescent lights.				
Heater	4kW @ 240VAC			
Misc.	J23 & J32	120VAC	4A max	Hot output (Stereo). Fused equipment or in-line fuse required.

Wiring Diagram and Settings



Software Configuration Changes based on Default Feature

Feature	Orig. Setup 1	Changes to
J8	2-Speed Pump 1	<i>1-Speed Pump 1</i>
J14, TP600 Button 2, LED 2, AX10A2	Pump 2	<i>Blower</i>
J21	Not Used (non-circ)	<i>Circ Pump Enabled</i>

Refer to Page 3 to choose a suitable Plumbing Kit.

Blue indicates changes from the original Setup 1 default

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Setup 5

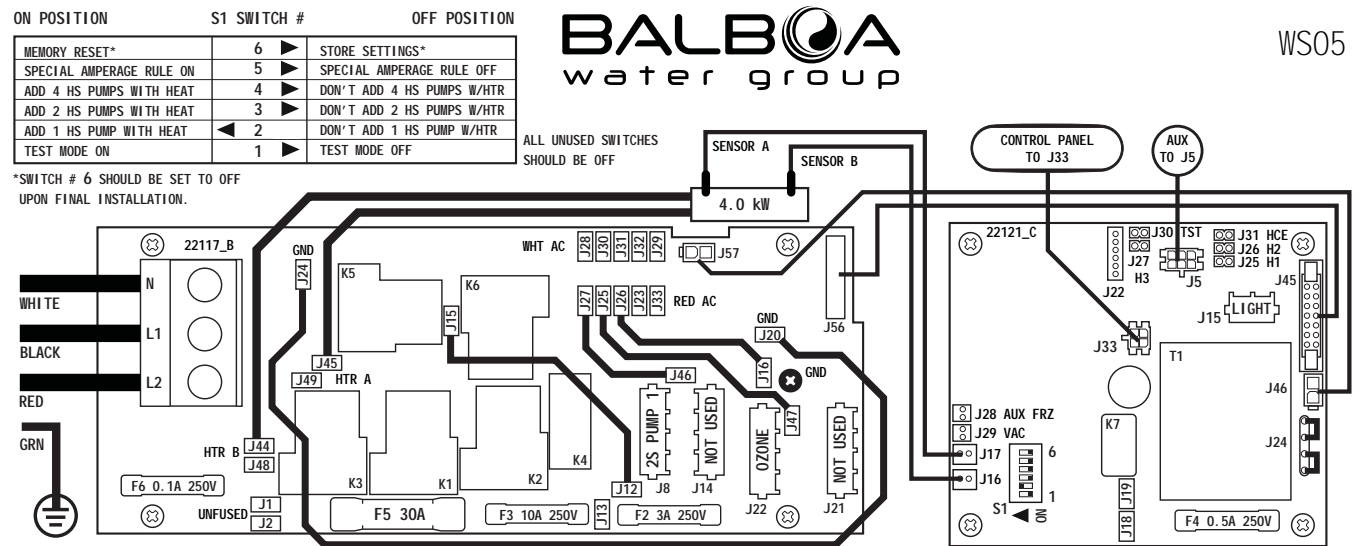
Power Requirements:

240VAC, 60Hz, 40A, Class A GFCI-protected service (Circuit Breaker rating = 50A max.)
 4 wires (Hot-Line 1, Hot-Line 2, Neutral, Ground)

System Outputs:

- Pump 1 240VAC 2-Speed 12A max 120-minute timer for Low Speed, 15 Minutes for High Speed
 This is the heater pump and must be the same voltage as the Ozone
 Must deliver a minimum of 20 GPM through heater
- Ozone 240VAC .5A max Uses the same relay as Pump 1 Low
 Must be the same voltage as heater pump
- Spa Light 12VAC On/Off .25A max 4-Hour timer.
Light output is rated for LED lighting only - NOT for use with incandescent lights.
- Heater 4kW @ 240VAC
- Misc. J23 & J32 120VAC 4A max Hot output (Stereo). Fused equipment or in-line fuse required.

Wiring Diagram and Settings



Software Configuration Changes based on Default Feature

J14, TP600 Button 2, LED 2, AX10A2 Pump 2 *Not Used*

Refer to Page 3 to choose a suitable Plumbing Kit.

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Setup 6

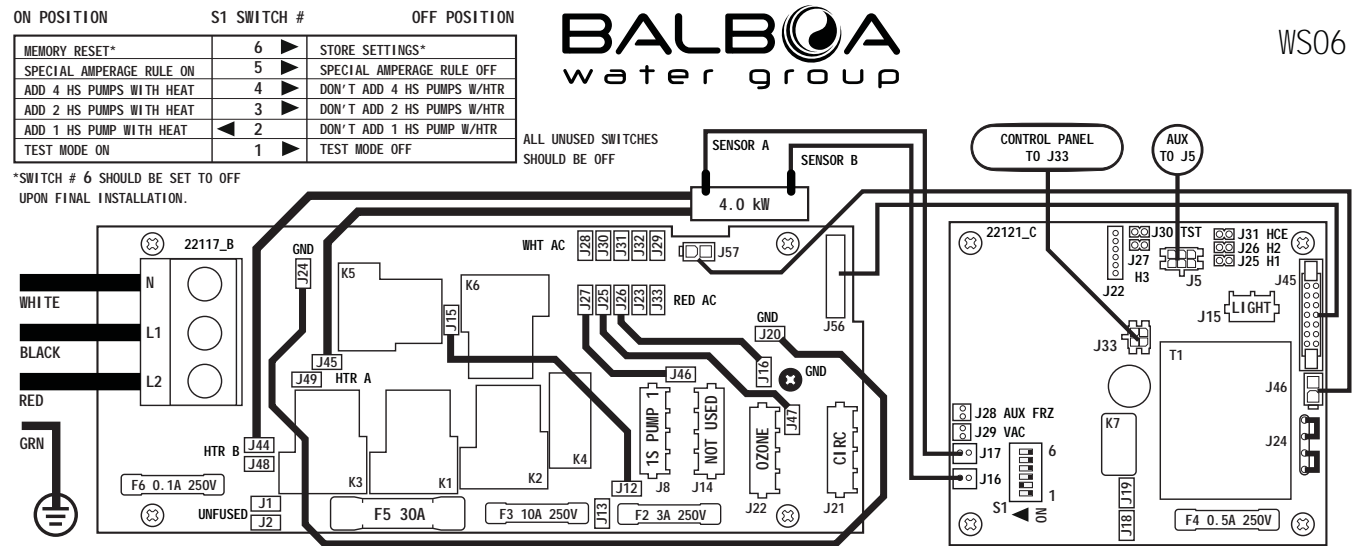
Power Requirements:

240VAC, 60Hz, 40A, Class A GFCI-protected service (Circuit Breaker rating = 50A max.)
 4 wires (Hot-Line 1, Hot-Line 2, Neutral, Ground)

System Outputs:

Pump 1	240VAC	1-Speed	12A max	15-minute timer
Circ Pump	240VAC	1-Speed	5A max	Programmable Filtration Cycles + Polling
				This is the heater pump and must be the same voltage as the Ozone
				Must deliver a minimum of 20 GPM through heater
Ozone	240VAC		.5A max	Uses the same relay as the Circ Pump
				Must be the same voltage as heater pump
Spa Light	12VAC	On/Off	.25A max	4-Hour timer.
				Light output is rated for LED lighting only - NOT for use with incandescent lights.
Heater	4kW @ 240VAC			
Misc.	J23 & J32	120VAC	4A max	Hot output (Stereo). Fused equipment or in-line fuse required.

Wiring Diagram and Settings



Software Configuration Changes based on Default Feature

Feature	Orig. Setup 1	Changes to
J8	2-Speed Pump 1	<i>1-Speed Pump 1</i>
J14, TP600 Button 2, LED 2, AX10A2	Pump 2	<i>Not Used</i>
J21	Not Used (non-circ)	<i>Circ Pump Enabled</i>

Refer to Page 3 to choose a suitable Plumbing Kit.

Blue indicates changes from the original Setup 1 default

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Setup 7

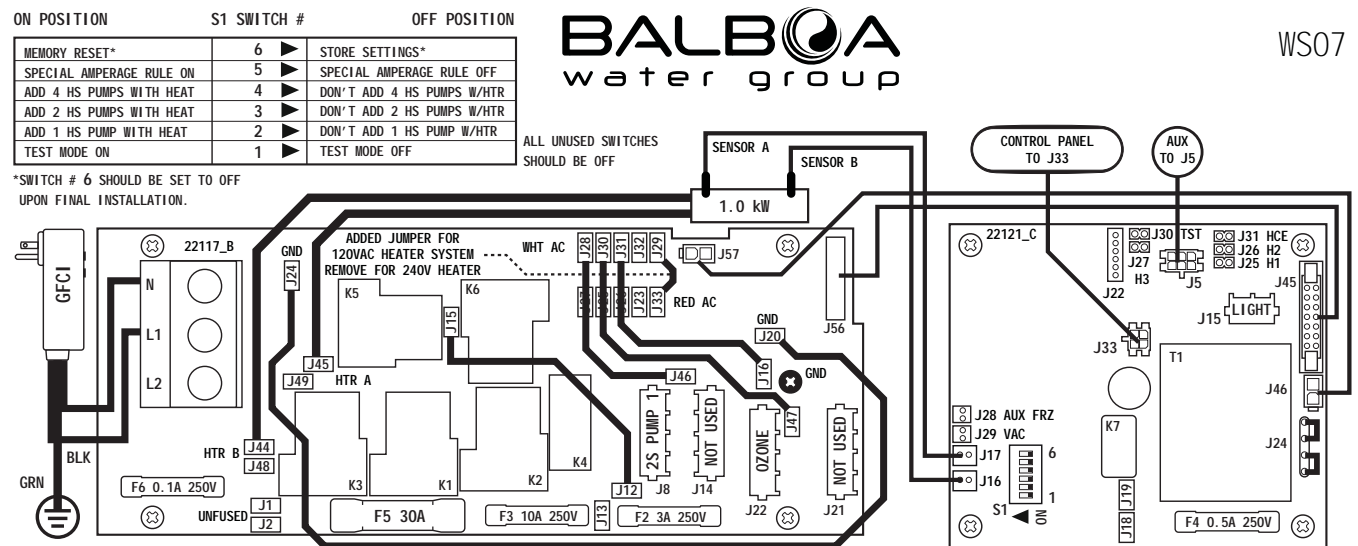
Power Requirements:

120/240VAC, 60Hz, 16/40A, Class A GFCI-protected service (Circuit Breaker = 20/50A max.),
3 or 4 wires [hot, hot (optional), neutral, ground]. **Do not use this setup with a 3 kW heater.**

System Outputs:

- Pump 1 120VAC 2-Speed 12A max 120-minute timer for Low Speed, 15 Minutes for High Speed
This is the heater pump and must be the same voltage as the Ozone
Must deliver a minimum of 20 GPM through heater
- Ozone 120VAC .5A max Uses the same relay as Pump 1 Low
Must be the same voltage as heater pump
- Spa Light 12VAC On/Off .25A max 4-Hour timer.
Light output is rated for LED lighting only - NOT for use with incandescent lights.
- Heater 1kW @ 120VAC or 4kW @ 240VAC
- Misc. J23 & J32 *Not Applicable with 120V Heater.*

Wiring Diagram and Settings



Software Configuration Changes based on Default Feature

J14, TP600 Button 2, LED 2, AX10A2 Pump 2*Not Used*

120v to 240v heater conversion instructions:

- 1, Conversion must be performed by a qualified, licensed electrician.
- 2, Disconnect from power and remove power cord.
- 3, Completely remove jumper wire between J29 and J33 and discard.
- 4, Install 240V power conductors; Line 1, Line 2 and Neutral to main terminal block (TB1)

Refer to Page 3 to choose a suitable Plumbing Kit.

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Setup 8

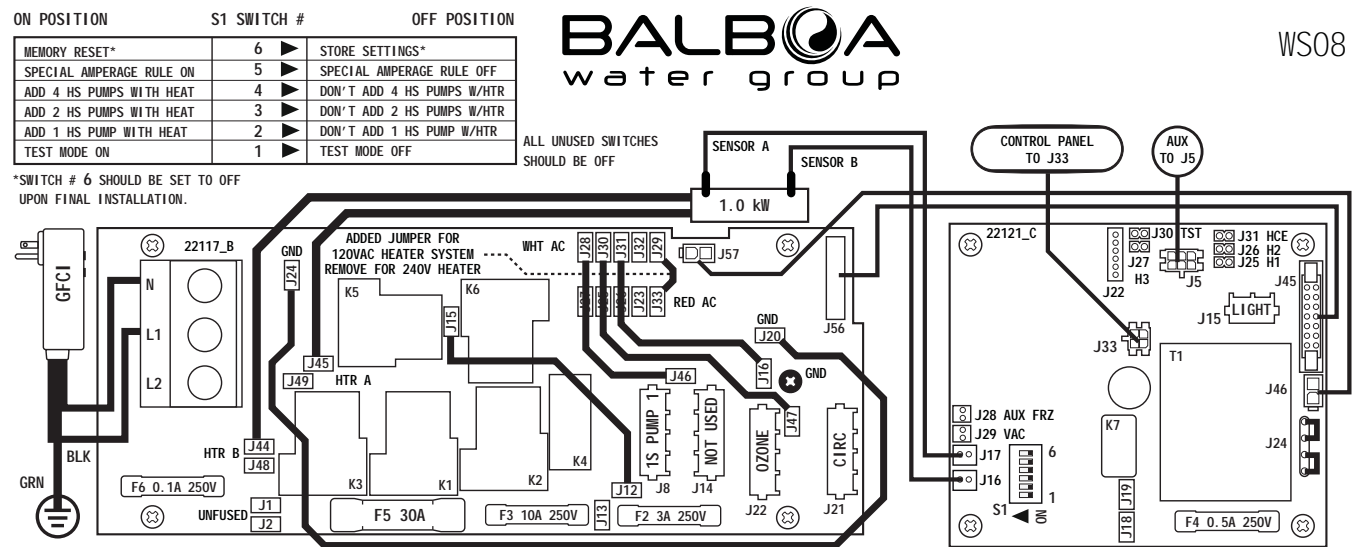
Power Requirements:

120/240VAC, 60Hz, 16/40A, Class A GFCI-protected service (Circuit Breaker = 20/50A max.), 3 or 4 wires [hot, hot (optional), neutral, ground]. **Do not use this setup with a 3 kW heater.**

System Outputs:

Pump 1	120VAC	1-Speed	12A max	15-minute timer
Circ Pump	120VAC	1-Speed	1.5A max	Programmable Filtration Cycles + Polling
This is the heater pump and must be the same voltage as the Ozone				
Must deliver a minimum of 20 GPM through heater				
Ozone	120VAC		.5A max	Uses the same relay as the Circ Pump
Must be the same voltage as heater pump				
Spa Light	12VAC	On/Off	.25A max	4-Hour timer.
Light output is rated for LED lighting only - NOT for use with incandescent lights.				
Heater	1kW @ 120VAC or 4kW @ 240VAC			
Misc.	J23 & J32	<i>Not Applicable with 120V Heater.</i>		

Wiring Diagram and Settings



Software Configuration Changes based on Default Feature

Feature	Orig. Setup 1	Changes to
J8	2-Speed Pump 1	<i>1-Speed Pump 1</i>
J14, TP600 Button 2, LED 2, AX10A2	Pump 2	<i>Not Used</i>
J21	Not Used (non-circ)	<i>Circ Pump Enabled</i>

120v to 240v heater conversion instructions:

See previous page.

Refer to Page 3 to choose a suitable Plumbing Kit.

Blue indicates changes from the original Setup 1 default



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Setup Changes with DIP Switch 1 ON

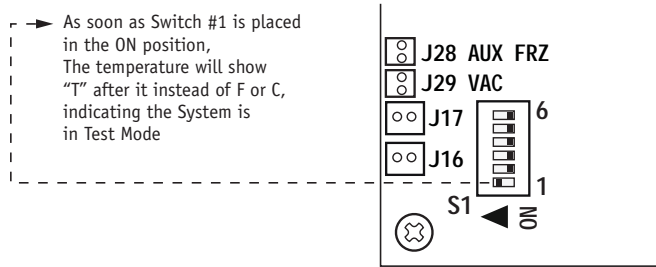
Read and understand these instructions before beginning this process.

Know the Setup Number you want before you power up the spa and wait to power up the spa until you're ready to change the Setup Number.

The system must be in Test Mode, so move Switch 1 to the ON position. The Test Menu will then be available.

Power up the spa, and press any button once to Link the panel. (Note: Switch 1 can be moved to the ON position immediately after power-up, if preferred - Danger! High Voltage will be present!)

You will have 1 minute to complete the setup change after you manually exit Priming Mode. (Once familiar with the process, the Setup change should take less than 15 seconds.)



DANGER! HIGH VOLTAGE WILL BE ACCESSIBLE! SERVICE TECHNICIAN ONLY!

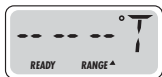
Move DIP Switch 1 (on S1 on the Logic circuit board) to ON.

The system will enter Test Mode.

Moving DIP Switch 1 to OFF will exit Test Mode.



When the panel displays RUN PMPS PURG AIR, press any Temperature button ONCE to exit Priming Mode. You should see "---T" where the T indicates the system is in Test Mode.



Continued on Next Page.



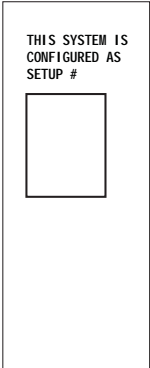
Setup Changes – Continued

Again, **You will have 1 minute** to complete the setup change after you manually exit Priming Mode.

Immediately after exiting Priming Mode, press this sequence of buttons: Warm*, Light, Warm, Warm, Warm, Warm. Continue to press Warm until the display shows the Setup Number (S-01, S-02, etc.) you want to switch to. When the correct setup number is showing, press Light once, and the system will reset, using the newly-selected Setup from that point on.

Move DIP Switch 1 to the OFF position to take the spa out of Test Mode. °F or °C will replace °T.

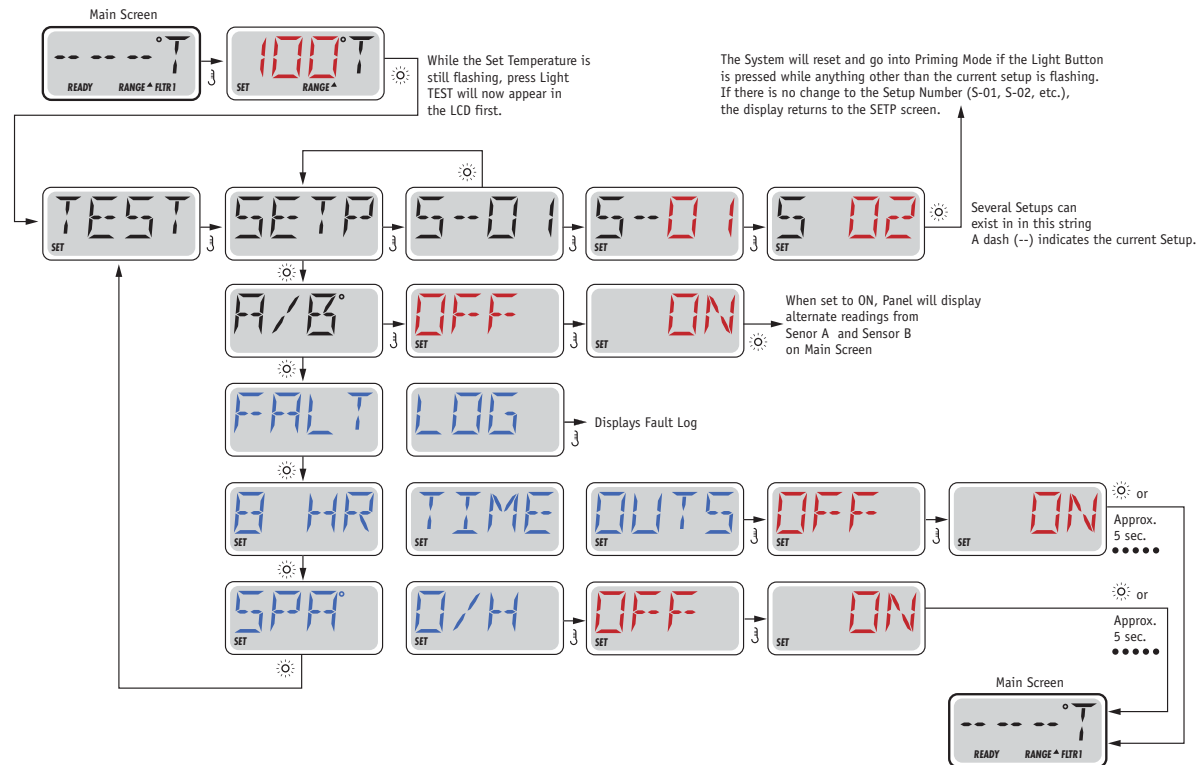
Using a permanent marker, write the Setup number on the Setup label mounted inside the system lid (right). This is very important to any service person in the future who may need to replace a circuit board or system and needs to change the Setup on a replacement part while in the field.



NOTE: Changing the Setup may require wiring changes as well - refer to the wiring diagram or wiring diagram addendum.

Key

- █ Indicates Flashing or Changing Segment
- █ Indicates Alternating or Progressive Message - every 1/2 second
- ⌄ A temperature button, used for "Action"
- ☼ Light or dedicated "Choose" button, depending on control panel configuration
- Waiting time - varies depending on function



*If the Control Panel does not have a Warm (Up) button, but rather a single Temp button, use the Temp button in place of the Warm button in the instruction above. (The flow chart assumes a single Temperature Button.)



Configuration Options

General Features

Feature	Default
Pump 1 in Filter Cycle (Circ Only)	No
Pump 1 Low Timer	120 Minutes
General Pump Timer	15 Minutes
Blower Timer	15 Minutes
Mister Timer (N/A)	15 Minutes
Light Timer	240 Minutes
Circ	Like P1 Low

Cleanup Cycle *30 Minutes*

Cleanup as Preference setting Yes

Ozone Always

Ozone Suppression OFF

Pump Purge 60 Seconds

Blower Purge 30 Seconds

Mister Purge (N/A) 5 Seconds



Blue Indicates New Custom Configuration Default (Setup 1)

Manufactured under one or more of these patents. U.S. Patents: 5332944, 5361215, 5550753, 5559720, 5,883,459, 6253227, 6282370, 6590188, 6976052, 6965815, 7030343, 7,417,834 b2, Canadian Patent: 2342614, Australian patent: 2373248 other patents both foreign and domestic applied for and pending. All material copyright of Balboa Water Group.

Configuration Options

Temperature Features

Feature Default

Temperature Display °F

All temperatures must be specified in °F. The system converts °F to °C dynamically. If Celsius is required for default settings, choose a desired °C value that (after rounding) corresponds to a Fahrenheit value.

°C	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
°F	39	41	43	45	46	48	50	52	54	55	57	59	61	63	64	66	68	70	72

°C	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
°F	73	75	77	79	81	82	84	86	88	90	91	93	95	97	99	100	102	104

Hi-Range Min. Set Temp	80°F
Hi-Range Max. Set Temp	104°F
Hi-Range Default Temp*	100°F
Lo-Range Min. Set Temp	50°F
Lo-Range Max. Set Temp	99°F
Lo-Range Default Temp*	70°F
Freeze Threshold	44°F
Temp Lock Type	Temp + Settings

Time Features

Feature Default

Time Format*	12 Hour
Filter 1 Start Hour*	8:00 PM (20:00)
Filter 1 Duration*	2 Hours
Filter Cycle 2 Default*	OFF
Filter 2 Start Hour*	8:00 AM (08:00)
Filter 2 Duration*	15 Minutes
Light Cycle	Disabled
Light Cycle Default*	OFF
Light Cycle Start Hour*	9:00 PM (21:00)
Light Cycle Duration*	15 Minutes

**May be changed by end-user (if Enabled)*



Blue Indicates New Custom Configuration Default (Setup 1)

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Configuration Options

Reminder Features

Feature	Default
Reminders Shown*	<i>Yes</i>
Check pH	<i>OFF</i>
Check Sanitizer	<i>OFF</i>
Clean Filter	30 Days
Test GFCI	<i>65 Days</i>
Drain Water	<i>100 Days</i>
Change Cartridge	OFF
Clean Cover	<i>OFF</i>
Treat Wood	<i>OFF</i>
Change Filter	365 Days

Special Features

Feature	Default
Special Amperage Rule 1	No Limitation
Special Amperage Rule 2	No Limitation
Drain Mode	Disabled
Demo Mode	Disabled
Automatic GFCI Test	Disabled
Ozone Slaved to Heater Pump	<i>Yes</i>

**Editable by end-user*



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Configuration Options

Main Control Panel Features

Feature	Default
Button 1	Jets 1
Button 2	Jets 2
Button 3	Flip
Button 4	Up
Button 5	Light 1
Button 6	Down
LED 1	Jets 1
LED 2	Jets 2
LED 3	Light 1
LED 4	Heat ON

TP600

55673-03 ►



Download the User Interface and Programming Guide here:
http://service.balboa-instruments.com/zz40940_download.zip
Blue Indicates New Custom Configuration Default (Setup 1)



Manufactured under one or more of these patents. U.S. Patents: 5332944, 5361215, 5550753, 5559720, 5,883,459, 6253227, 6282370, 6590188, 6976052, 6965815, 7030343, 7,417,834 b2, Canadian Patent: 2342614, Australian patent: 2373248 other patents both foreign and domestic applied for and pending. All material copyright of Balboa Water Group.

Configuration Options

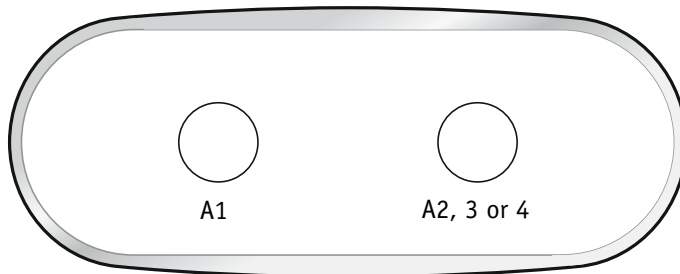
Auxilliary Panel Features

Feature	Default
Aux Button A1	Jets 1
Aux Button A2	Jets 2
Aux Button A3	<i>Unused</i>
Aux Button A4	Light

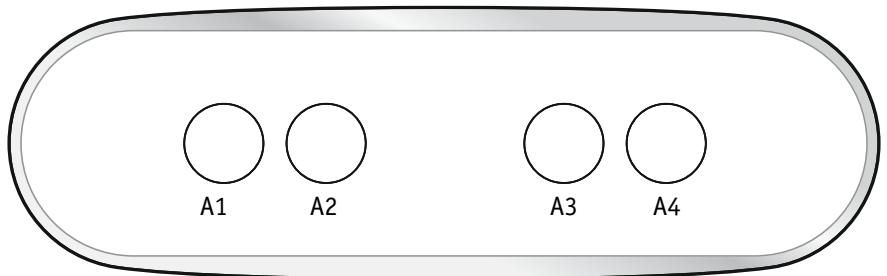
AX10 A1	No O/L	52803
AX10 A2	AUX O/L	55919
AX10 A3	No O/L	52805
AX10 A4	No O/L	52806



AX20 A1A2	No O/L	52800
AX20 A1A3	No O/L	52801
AX20 A1A4	No O/L	52802



AX40	No O/L	52799
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Blue Indicates New Custom Configuration Default (Setup 1)

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